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Title:
Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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DB
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        Match Length DB
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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52
1 CXXXCXXXXXXXXXX
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Gapop 10.0 , Gapext 0.5
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pyrularia thionin neurotoxin Tx2 - s neurotoxin Tx2 - s metallothionein 1 testis-specific pr testis-specific pr quamerin - Korean metallothionein - metallothionein 1 metallothionein 2 metallothionein 2 metallothionein 1 metallot
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Query Match 100.0%; S Best Local Similarity 20.0%; Pr Matches 4; Conservative 16;	RESULT 2 \$18174 \$18174 C;Species: Colinus virginianus (common bobw C;Date: 06-Jan-1995 #sequence_revision 06-J C;Accession: \$33379; \$18174 R;Shartzer, K.L.; Kage, K.; Sobieski, R.J.; J. Mol. Evol. 36, 255-262, 1993 A;Title: Evolution of avian metallothionein A;Reference number: \$33378; MUID:93247066 A;Accession: \$33379 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-43 <sha> A;Cross-references: EMBL:X62512; NID:g62751 C;Superfamily: metallothionein</sha>	Query Match Best Local Similarity 20.0%; Property Matches 4; Conservative 16; Qy 1 CXXXCXXXXXXXXXXXX 20 Qy 1::::::::::::::::::::::::::::::::::::	RESULT 1 S18173 metallothionein - common bobwhite (fragme C; Species: Colinus virginianus (common boc; Date: 06-Jan-1995 #sequence_revision 06 C; Accession: S33378; S18173 R; Shartzer, K.L.; Kage, K.; Sobieski, R.J. Mol. Evol. 36, 255-262, 1993 A; Title: Evolution of avian metallothione A; Reference number: S3378; MUID:93247066 A; Accession: S3378 A; Status: preliminary A; Molecule type: mRNA A; Residues: 1-43 < SHA> A; Cross-references: EMBL:X62511; NID:9627 C; Superfamily: metallothionein		30 52 100.0 61 1 SMHU 31 52 1100.0 61 1 SMMS 32 52 1100.0 61 1 SMRT 33 52 1100.0 61 1 SMRT 34 52 1100.0 61 2 SMRT 35 52 1100.0 61 2 S008 36 52 1100.0 61 2 S008 36 52 1100.0 61 2 S008 37 52 1100.0 61 2 S008 39 52 1100.0 61 2 S008 39 52 1100.0 61 2 S008 40 52 1100.0 61 2 S008 40 52 1100.0 61 2 S008 41 52 1100.0 61 2 S034 42 52 1100.0 61 2 B238 43 52 1100.0 61 2 S243 44 52 1100.0 61 2 S2543 45 52 1100.0 61 2 S543
Score 52; DB 2; Length Pred. No. 1.8e+02; ; Mismatches 0; Inde	agment) n bobwhite) n 06-Jan-1995 #text_c R.J.; Andrews, G.K. ionein: DNA sequence 7066	Score 52; DB 2; Length Pred. No. 1.8e+02; ; Mismatches 0; Inde	ment) bobwhite) 06-Jan-1995 #text_c 3.J.; Andrews, G.K. onein: DNA sequence 52749; PIDN:CAA44370	ALIGNMENTS	1 G 1 I 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C
143; 21s 0; Gaps 0;	hange 20-Aug-1999 analyses of the turkey meta .1; PID:g62752	n 43; els 0; Gaps 0;	change 20-Aug-1999 analyses of the turkey meta		metallothionein IG metallothionein I metallothionein I metallothionein I metallothionein IR metallothionein IR metallothionein IC metallothionein IC metallothionein I metallothionein I metallothionein I metallothionein I metallothionein I metallothionein I metallothionein 1 metallothionein 1 metallothionein 1 metallothionein 1 metallothionein 1 metallothionein 2 metallothionein 2D metallothionein 2D

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neurotoxin Tx2 - spider (Phoneutria nigriventer)
C;Species: Phoneutria nigriventer
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 07-May-1999
C;Accession: S29216
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J. Mol. Evol. 36, 255-262, 1993
A;Title: Evolution of avian metallothionein: DNA sequence analyses
                                                                               A:Molecule type: protein A;Residues: 1-48 <COR> C;Superfamily: curtatoxin
                                                                                                                                                              A;Title: The purification and amino acid sequences of four Tx2 A;Reference number: S29214; MUID:93011905
A;Accession: S29216
                                                                                                                                                                                                                                R;do Nascimento Cordeiro, M.; Ribeiro Diniz, C.; do Carmo Valentim, A.; von Eickstedt, FEBS Lett. 310, 153-156, 1992
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A:Title: A toxic thionin from Pyrularia pubera: purif A;Reference number: A24074; MUID:85173323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Species: Pyrularia pubera (oil nut, buffalo nut)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
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C;Species: Pyrularia pubera
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C;Species: Phasianus colchicus (ring-necked pheasant)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change
C;Accession: S33382; S18182
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A; Residues: 1-43 <SHA>
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A:Accession: S33382
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Query Match
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Best Local
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Best Local Similarity 20.0
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20.0%; Pi
tive 16;
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Pred. No. 1.8e+02;
Pred. No. 1.8e+02;
Score 52;
Pred. No. 1
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Pred. No. 1.8e+02;
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S25774
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S65712
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                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                          metallothionein.1 - rat (fragments)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 09-May-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: protein
A; Residues: 1-11 <REZ>
C; Superfamily: curtatoxin
C; Keywords: neurotoxin; ve
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C:Species: Phoneutria nigriventer
C:Date: 19-Mar_1997 #sequence_revision 19-Mar-1997 #text_change 15-Oct-1999
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                                                                                                                                                                                                                          C; Keywords: blocked amino
                                                                                                                                                                                                                                        A:Molecule type: protein
A;Residues: 1-23;24-46;47-52 <SAI>
C;Superfamily: metallothionein
                                                                                                                                                                                                                                                                                          A; Status: preliminary
                                                                                                                                                                                                                                                                                                        Biochim. Biophys. Acta 1289, 65-70, 1996
A;Title: Differential sensitivity of metallothionein-1 and
A;Reference number: 855712; MUID:96195842
A;Accession: $65712
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R; Saito, S.; Hunziker,
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A; Residues: 1-49 < COR>
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A; Accession: S29215
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testis-specific protein Mst84Dc - fruit fly (Drosophila melanogaster) C; Species: Drosophila melanogaster

밁 Qγ

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RESULT
A57537
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C:Superfamily: fruit fly testis-specific protein
C:Keywords: spermatogenesis; tandem repeat
A; Molecule type: protein A; Residues: 1-57 < JUN>
                                    A:Reference number: A57537; MUID:95293987
A:Accession: A57537
A:Status: preliminary
                                                                                                    C;Accession: A57537

R;Jung, H.I.; Kim, S.I.; Ha, K.S.; Joe, C.O.; Kang, K.V. J. Biol. Chem. 270, 13879-13884, 1995

A;Title: Isolation and characterization of guamerin, a
                                                                                                                                                                                          C;Species: Hirudo nipponia (Korean leech)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 19-Dec-1997
                                                                                                                                                                                                                     guamerin - Korean leech
C;Species: Hirudo oicon
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C:Superfamily: fruit fly testis-specific
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EMBO J. 7, 447-454, 1988
A;Title: Cis-acting regions sufficient for spermatocyte-specific transcriptional and A;Reference number: S00340; MUID:88211557
A;Accession: S00340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    testis-specific protein (clone mst(3)gl-9) - fruit fly (Drosophila melanogaster) C;Species: Drosophila melanogaster C;Species: Drosophila melanogaster C;Date: 30-Sep-1990 #text_change 22-Jun-1999
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A:Title: A cluster of four genes selectively expressed in the male germ line of Drosoph
A:Reference number: A56565; MUID:92102953
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A; Residues: 1-56 < KUH>
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C; Genetics:
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A; Residues: 1-55 < KUH>
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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20.0%; Pred. No
ative 16; Mismo
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دیم 2e+02;
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A: Molecule type: protein
A: Residues: 1-60 < KOJ>
A: Residues: 1-60 < KOJ>
A: Experimental source: liver and kidney
A: Note: both Ser and Leu occur at position 54
C: Superfamily: metallothionein
C: Keywords: acetylated amino end; metal binding
F: 1/ModLied site: acetylated amino end (Met) #status experimental
F: 57, 13, 15, 19, 21, 24, 26, 29/Binding site: transition metal ions (Cys)
F: 33, 34, 36, 37, 41, 44, 48, 50, 57, 59/Binding site: transition metal ions (Cys)
                                                 Query Match
Best Local Similarity
""" (Conserve
                                                                                                                                                                                                                                             R;Leaver, M.J.; George, S.o
submitted to the EMBL Data
A;Reference number: S30567
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Best Local Similarity
Thes 4; Conserve
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C:Species: Equus caballus (domestic horse)
C:Date: 31-May-1979 #sequence_revision 31-May-1979 #text_change 13-Sep-1996
                                                                                                                                              A;Cross-references: EMBL:X56743; NID:g64237; PIDN:CAA40067.1; PID:g64238 C;Superfamily: metallothionein
                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-60 < LEA>
                                                                                                                                                                                                                              A; Reference number: A; Accession: S30567
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C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 20-Aug-1999
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S30567
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A; Accession: A03277
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Best Local Similarity
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                                1 CXXXCXXXXXXXXXXXXXXX
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20.0%; Pred.
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No. 2.1e+02;
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metallothionein - Mozambique tilapia
C;Species: Tilapia mossambica, Oreochromis mossambicus (Mozambique tilapia)
C;Date: 21-Feb-1995 #sequence_revision 05-Apr-1995 #text_change 20-Aug-1999

RESULT JC2420

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C;Accession: JC2420
R;Chan, K.M.
Biochem. Biophys. Res. Commun. 205, 368-374, 1994
A;Title: PCR-cloning of goldfish and Tilapia metalLothionein complementary DNAs. A;Reference number: JC2419; MUID:95091751
A;Recession: JC2420
A;Molecule type: mRNA
A;Residues: 1-60 <CHA>
A;Residues: 1-60 <CHA>
A;Cross-references: GB:S75042; NID:g802155; PIDN:AAB32778.1; PID:g802156
C;Comment: The protein belongs to a metallothionin family of low molecular weight and C;Superfamily: metallothionein
                                                 A:Cross-references: EMBL:X70042; NID:g62783; PIDN:CAA49636.1; PID:g62783
A:Note: the authors translated the codon ACT for residue 9 as Ser
R:Kille, P.; Stephens, P.E.; Kay, J.
Biochim. Biophys. Acta 1089, 407-410, 1991
A:Title: Elucidation of cDNA sequences for metallothioneins from rainbow trout, stone A:Reference number: S16996; MUID:91316146
A:Accession: S17175
                                                                                                                                                                                                                                                                                       metallothionein - northern pike
C;Species: Esox lucius (northern pike)
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 20-Aug-1999
C;Accession: S38334; S17175; S15503; S31723
R;Kille, P.; Kay, J.; Sweeney, G.E.
Blochim. Biophys. Acta 1216, 55-64, 1993
A;Title: Analysis of regulatory elements flanking metallothionein genes in CA;Reference number: S38334; MUID:94032489
A;Accession: S38334
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A; Molecule type: mRNA
A; Residues: 1-60 <KIL>
                                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 1-60 <KI3>
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Pred. No. 2.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                           genes in Cd-tolerant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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```

A;Cross-references: EMBL:X59392; NID:g62780; PIDN:CAA42035.1; PID:g62781 C;Genetics:

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A;Introns: 9/1; 31/1
C;Superfamily: metallothionein
C;Keywords: chelation; metal binding; metal-thiolate cluster
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δõ
В
                                        Query Match
Best Local Similarity
                                  Matches
28
                1 CXXXCXXXXXXXXXXXXX 20
CKKSCCSCCPSGCSKCASGC 47
                                  Conservative
                                         100.0%;
                                  16;
                                          Pred. No. 2.1e+02;
                                                  Score 52;
                                 Mismatches
                                                  DB 2;
                                  0
                                                 Length 60;
                                  Indels
                                  0,
                                 Gaps
```

0;

Search completed: March 1, 2001, 16:20:13
Job time: 321 sec